This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *October 30, 1915.*

MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1915.]

HOW TO SECURE PUBLICATIONS.

A copy of any of the publications listed herein, including those with price named, except the Journal of Agricultural Research, Experiment Station Record, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

Instead of writing a letter, applicants may return this list with an "X" plainly marked on the left-hand margin opposite the publication desired, and with name and address plainly written at top or end of list.

After this department's supply of the publications listed below is exhausted, these publications of which the price is indicated can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

SERIALS.

Journal of Agricultural Research. (Issued weekly.)

Vol. 5, No. 1. October 4, 1915. *Contents:* Announcement of Weekly Publication. By D. F. Houston.—Effect of Alkali Salts in Soils on the Germination and Growth of Crops. By Frank S. Harris.—Histological Relations of Sugar-Beet Seedlings and Phomabetæ. By H. A. Edson. Pp. 1–58, pls. 2, figs. 48. Price, 10 cents.

Same, No. 2. October 11, 1915. *Contents:* Perennial Mycelium in Species of Peronosporaceæ Related to Phytophthora infestans. By I. E. Melhus.—Hibernation of Phytophthora infestans of the Irish Potato. By I. E. Melhus. Pp. 59–102, pls. III–VIII, figs. 4. Price, 15 cents.

Same, No. 3. October 18, 1915. *Contents:* Enzyms of Apples and Their Relation to the Ripening Process. By R. W. Thatcher.—An Automatic Transpiration Scale of Large Capacity for Use with Freely Exposed Plants. By Lyman J. Briggs and H. L. Shantz.—Parasitism of Comandra umbellata. By George Grant Hedgcock.—Separation of Soil Protozoa. By Nicholas Kopeloff, H. Clay Lint, and David A. Coleman. Pp. 103–140, pls. IX–XI, figs. 18. Price, 10 cents.

Same, No. 4. October 25, 1915. *Contents:* Effect of Temperature on the Movement of Water Vapor and Capillary Moisture in Soils. By G. J. Bouyoucos.—Soil Temperatures as Influenced by Cultural Methods. By Joseph Oskamp.—Alternaria papax, the Cause of a Root-Rot of Ginseng. By J. Rosenbaum and C. L. Zinnsmeister. Pp. 141–182, pls. XII–XIII, figs. 15. Price, 10 cents.

NOTE.—Beginning with Volume 5, THE JOURNAL OF AGRICULTURAL RESEARCH will be issued weekly and distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being $3.00 per year, 52 numbers.

Experiment Station Record, Vol. XXXIII, No. 4, September, 1915. E. W. Allen, Ph. D., Editor. Pp. 301–400. Price, 15 cents.

Same, Vol. XXXIII, No. 5, October, 1915. Pp. 401–500. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 1, No. 6, October 16, 1915. Pp. 53–64. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, condition, yield, prices and value of crops and live stock.

SERVICE AND REGULATORY ANNOUNCEMENTS.

These contain *only* information, instructions, and notices governing the enforcement of the pure food and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at 5 cents per copy.

Bureau of Animal Industry. September, 1915. No. 101. Pp. 105–111. Oct. 29, 1915. Price, 5 cents.

Bureau of Chemistry, Supplement No. 10. Pp. 559–656. Oct. 21, 1915. Price, 5 cents.

SOIL SURVEYS.

Soil Survey of Jackson County, Georgia. By David D. Long, of the Georgia State College of Agriculture, and Mark Baldwin, of the U. S. Department of Agriculture. Pp. 27, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Bladen County, North Carolina. By R. B. Hardison, Risden T. Allen, and B. B. Derrick, of the U. S. Department of Agriculture, and L. L. Brinkley, S. O. Perkins, and R. C. Jurney, of the North Carolina Department of Agriculture. Pp. 35, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Buffalo County, Wisconsin. By W. J. Geib, Clarence Lounsbury, and L. Cantrell, of the U. S. Department of Agriculture, and T. J. Dunnewald and O. J. Noer, of the Wisconsin Geological and Natural History Survey. Pp. 50, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

BULLETINS.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. As long as the department's supply lasts, these bulletins will be supplied free to persons who can use such specialized information. See instructions on page 1.

Miscellaneous Insecticide Investigations. By E. W. Scott and E. H. Siegler, Entomological Assistants, Deciduous-Fruit Insect Investigations. Pp. 47. Contribution from the Bureau of Entomology. (Professional Paper.) Oct. 5, 1915. (Department Bulletin 278.) Price, 10 cents.

Describes experiments with various chemicals, singly and combined, for the destruction of insect pests. It will be of interest to horticulturists in general and apple growers in particular.

The Northern Hardwood Forest: Its Composition, Growth, and Management. By E. H. Frothingham, Forest Examiner. Pp. 80, pls. 15, figs. 1. Contribution from the Forest Service. (Professional Paper.) Oct. 22, 1915. (Department Bulletin 285.) Price, 20 cents.

Of interest to lumbermen in the Upper Mississippi and Great Lakes region and the New England States, and to manufacturers of hardwood products generally.

Distribution and Migration of North American Gulls and Their Allies. By Wells W. Cooke, Assistant Biologist. Pp. 70, figs. 31. Contribution from the Bureau of Biological Survey. (Professional Paper.) Oct. 25, 1915. (Department Bulletin 292.) Price, 15 cents.

Presents precise information regarding the ranges of the several species of gulls and their allies, the skuas and jaegers, especially the breeding ranges and migrations, and includes data for use for legislative reference to serve as a basis for legal protection for the species by States in which they are found. For general distribution.

The Grasshopper Outbreak in New Mexico During the Summer of 1913. By Harrison E. Smith, Entomological Assistant, Cereal and Forage Insect Investigations. Pp. 12, figs. 2. Contribution from the Bureau of Entomology. (Professional Paper.) Oct. 7. 1915. (Department Bulletin 293.) Price, 5 cents.

For distribution throughout that part of the country where this insect is found.

Lessons on Cotton for the Rural Common Schools. By C. H. Lane, Chief Specialist in Agricultural Education. Pp. 16, figs. 4. Contribution from the States Relations Service. (Professional Paper.) Sept. 30, 1915. (Department Bulletin 294.) Price, 5 cents.

Furnishes elementary lessons on cotton and is of interest to rural school teachers in the Southern States.

The Zimmerman Pine Moth. By Josef Brunner, Assistant in Forest Entomology, Forest Insect Investigations. Pp. 12, pls. 11. Contribution from the Bureau of Entomology. (Professional Paper.) Oct. 28, 1915. (Department Bulletin 295.) Price, 10 cents.

Of special interest to manufacturers and users of pine lumber from the Western States.

Our Foreign Trade in Farm and Forest Products. Prepared under the direction of Perry Elliott, Division of Crop Records. Pp. 51, figs. 2. Contribution from the Bureau of Crop Estimates. Oct. 25, 1915. (Department Bulletin 296.) Price, 10 cents.

A summary of the leading features of the foreign trade of the United States in farm and forest products. It is intended for general circulation.

Cereal Investigations on the Belle Fourche Experiment Farm. By Cecil Salmon, formerly Plant Physiologist, Office of Cereal Investigations. Pp. 43, figs. 12. Contribution from the Bureau of Plant Industry. Oct. 28, 1915. (Department Bulletin 297.) Price, 10 cents.

Of interest to dry-land and irrigation farmers, especially in South Dakota.

Silver Fox Farming in Eastern North America. By Ned Dearborn, Assistant Biologist. Pp. 35, figs. 22. Contribution from the Bureau of Biological Survey. Oct. 29, 1915. (Department Bulletin 301.) Price, 10 cents.

A discussion of sites, methods of breeding and handling the animals, costs and profits in the business of fox farming.

A Bacteriological Study of Retail Ice Cream. By S. Henry Ayers, Bacteriologist, and William T. Johnson, Jr., Scientific Assistant, Dairy Division. Pp. 24, figs. 3. Contribution from the Bureau of Animal Industry. (Professional Paper.) Oct. 29, 1915. (Department Bulletin 303.) Price, 5 cents.

A technical description of results obtained from a bacteriological examination of samples of ice cream secured from various stores in Washington, D. C.

Some Effects of Selection on the Production of Alkaloids in Belladonna. By A. F. Sievers, Chemical Biologist, Drug-Plant and Poisonous-Plant Investigations. Pp. 20, figs. 10. Contribution from the Bureau of Plant Industry. (Professional Paper.) Oct. 15, 1915. (Department Bulletin 306.) Price, 5 cents.

Technical in character and not suitable for miscellaneous distribution.

Cantaloupe Marketing in the Larger Cities, With Car-Lot Supply, 1914. By Wells A. Sherman, Specialist in Market Surveys, A. Dexter Gail, Jr., Assistant in Market Surveys, and Faith L. Yeaw, Laboratory Aid. Pp. 20, figs. 8. Contribution from the Office of Markets and Rural Organization. Oct. 23, 1915. (Department Bulletin 315.) Price, 5 cents.

Should be of general interest to cantaloupe growers, shippers, dealers, and consumers, and to transportation companies.

Miscellaneous.

State Highway Mileage and Expenditures to January 1, 1915. Prepared by the Division of Road Economics, Office of Public Roads and Rural Engineering. Pp. 6. Oct. 13, 1915. (Circular 52, Office of the Secretary.) Price, 5 cents.

Formulæ for Calculating Interest on Farm Equipment. By W. J. Spillman, Chief, Office of Farm Management. Pp. 4. Oct. 12, 1915. (Circular 53, Office of the Secretary.) Price, 5 cents.

UNIVERSITY OF FLORIDA
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A System of Pasturing Alfalfa in Salt River Valley, Arizona. By R. W. Clothier, Agriculturist, Office of Farm Management. Pp. 4. Oct. 22, 1915. (Circular 54, Office of the Secretary.) Price, 5 cents.

The Necessity for Eradicating Foot-and-Mouth Disease. Pp. 4. Oct. 5, 1915. (Bureau of Animal Industry.)

The Work of the Scottsbluff Reclamation Project Experiment Farm in 1914. By Fritz Knorr, Farm Superintendent. Pp. 19, figs. 3. Oct. 9, 1915. (Bureau of Plant Industry.) Price, 5 cents.

The Work of the Yuma Reclamation Project Experiment Farm in 1914. By R. E. Blair, Farm Superintendent. Pp. 24, figs. 6. Oct. 18, 1915. (Bureau of Plant Industry.)

List of Farmers' Bulletins Available for Distribution, Nov. 1, 1915. Pp. 3.

Farmers' Bulletins.

No price is quoted for Farmers' Bulletins for the reason that the department's supply of the current numbers is ordinarily sufficient to make it possible to send them free to all applicants.

Varieties of Hard Spring Wheat. By Carleton R. Ball, Agronomist in Charge, and J. Allen Clark, Scientific Assistant, Western Wheat Investigations. Pp. 20, figs. 7. Contribution from the Bureau of Plant Industry. Oct. 7, 1915. (Farmers' Bulletin 680.)

Deals with the varieties of hard spring wheat, both common and durum, and shows the particular sections and districts to which they are suited.

The Native Persimmon. By W. F. Fletcher, Scientific Assistant, Office of Horticultural and Pomological Investigations. Pp. 28, figs. 17. Contribution from the Bureau of Plant Industry. Oct. 12, 1915. (Farmers' Bulletin 685.)

Intended for those to whom knowledge of the production, preparation, and uses of the native persimmon is of value.

The Field Pea As a Forage Crop. By H. N. Vinall, Agronomist, Office of Forage Crop Investigations. Pp. 24, figs. 16. Contribution from the Bureau of Plant Industry. Oct. 8, 1915. (Farmers' Bulletin 690.)

Of interest to farmers and dairymen. It discusses the field pea principally as a forage crop.

Bur Clover. By Charles V. Piper, Agrostologist in Charge, and Roland McKee, Assistant Agrostologist, Office of Forage Crop Investigations. Pp. 15, figs. 6. Contribution from the Bureau of Plant Industry. Oct. 15, 1915. (Farmers' Bulletin 693.)

Intended for general distribution in the cotton regions and on the Pacific coast.

The Cultivation of Peppermint and Spearmint. By Walter Van Fleet, Physiologist, Drug-Plant and Poisonous-Plant Investigations. Pp. 13. Contribution from the Bureau of Plant Industry. Oct. 19, 1915. (Farmers' Bulletin 694.)

Of interest to those engaged in or contemplating mint culture, and is applicable to all portions of the country where mint is grown.

Outdoor Wintering of Bees. By E. F. Phillips, In Charge of Bee Culture Investigations, and George S. Demuth, Apicultural Assistant. Pp. 12. Contribution from the Bureau of Entomology. Oct. 12, 1915. (Farmers' Bulletin 695.)

Deals with the care of bees in winter when wintered outside, and is of interest to beekeepers in all parts of the United States.

Publications of the Weather Bureau.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin, Nos. 29, 30, 31, 32, October, 1915, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

Jos. A. Arnold,
Editor and Chief Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1915